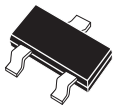
查询CMPTA13供应商

CMPTA13 CMPTA14 NPN
CMPTA63 CMPTA64 PNP

SILICON COMPLEMENTARY DARLINGTON TRANSISTORS



SOT-23 CASE

Central™ Semiconductor Corp.

Description:
The CENTRAL SEMICONDUCTOR CMPTA13, CMPTA63 series types are complementary silicon darlington transistors manufactured by the epitaxial planar process, epoxy molded in a surface mount package, designed for applications requiring extremely high gain.

MARKING CODES:
CMPTA13: C1M CMPTA14: C1N
CMPTA63: C2U CMPTA64: C2V

MAXIMUM RATINGS (T_A=25℃)

	SYMBOL		UNITS
Collector-Base Voltage	V_{CBO}	30	V
Collector-Emitter Voltage	V_{CES}	30	V
Emitter-Base Voltage	V_{EBO}	10	V
Continuous Collector Current	I_C	500	mA
Power Dissipation	P_D	350	mW
Operating and Storage Junction Temperature	T_J,T_{stg}	-65 to +150	℃
Thermal Resistance	Θ_{JA}	357	℃/W

ELECTRICAL CHARACTERISTICS (T_A=25℃ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_{CBO}	V_{CB}=30V		100	nA
I_{EBO}	V_{BE}=10V		100	nA
BV_{CES}	I_C=100μA	30		V
$V_{CE(SAT)}$	I_C=100mA, I_B=0.1mA		1.5	V
$V_{BE(ON)}$	V_{CE}=5.0V, I_C=100mA		2.0	V
h_{FE}	V_{CE}=5.0V, I_C=10mA (CMPTA13, CMPTA63)	5,000		
h_{FE}	V_{CE}=5.0V, I_C=10mA (CMPTA14, CMPTA64)	10,000		
h_{FE}	V_{CE}=5.0V, I_C=100mA (CMPTA13, CMPTA63)	10,000		
h_{FE}	V_{CE}=5.0V, I_C=100mA (CMPTA14, CMPTA64)	20,000		
f_T	V_{CE}=5.0V, I_C=10mA, f=100MHz	125		MHz

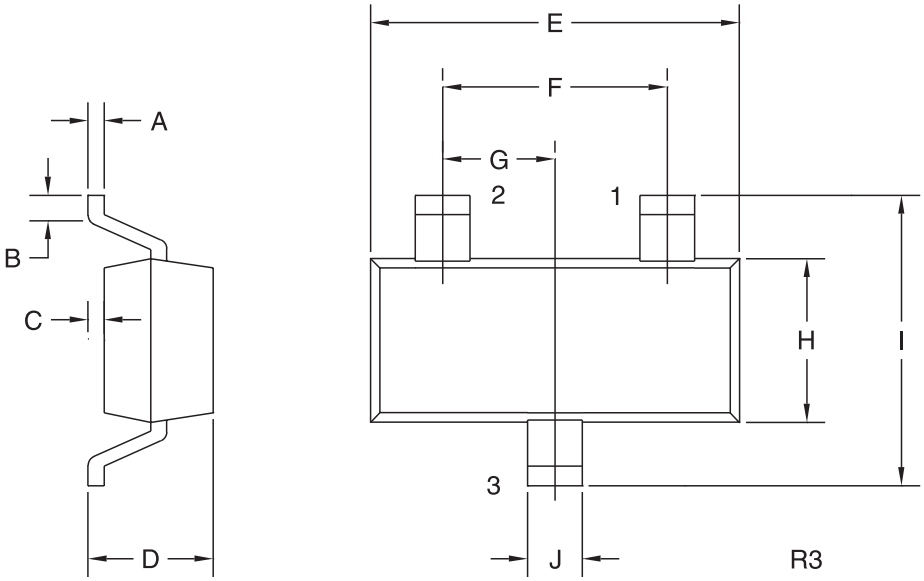
R4 (26-September 2002)

Central™
Semiconductor Corp.

CMPTA13 CMPTA14 NPN
CMPTA63 CMPTA64 PNP

SILICON COMPLEMENTARY
DARLINGTON TRANSISTORS

SOT-23 CASE - MECHANICAL OUTLINE



LEAD CODE:
1) BASE
2) EMITTER
3) COLLECTOR

MARKING CODES:
CMPTA13: C1M
CMPTA14: C1N
CMPTA63: C2U
CMPTA64: C2V

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0.003	0.007	0.08	0.18
B	0.006	-	0.15	-
C	-	0.005	-	0.13
D	0.035	0.043	0.89	1.09
E	0.110	0.120	2.80	3.05
F	0.075		1.90	
G	0.037		0.95	
H	0.047	0.055	1.19	1.40
I	0.083	0.098	2.10	2.49
J	0.014	0.020	0.35	0.50

SOT-23 (REV: R3)

R4 (26-September 2002)